

HAIOS, A.

Synthetic examination of connection with chloramphenicol. VIII. Preparation of p-nitroacetophenone, p-nitrobenzaldehyde, and analogous compounds by oxidative oxime splitting. p. 219

KOZSARY. Magyar Tudományos Akademia. Kemiai Tudományok Osztálya. Budapest, Hungary. Vol. 12 No. 2, 1959.

Monthly list of East European Accession (EEAI) LC, Vol. ~~XXXXXXXXXXXXXXXXXXXX~~
9, no. 2, Feb. 1960
Encl.

HAJOS, Andor (Budapest)

Studies in the field of chloramphenicol. VIII. Preparation of p-nitroacetophenone, p-nitrobenzaldehyde and related compounds through oxidative oxine fission. In German. Acta chimica Hung. 21 no.2: 131-136 '59. (KEAI 9:4)

1. Research Institute of the Pharmaceutical Industry, Budapest.
 (Chloramphenicol) (Nitrobenzaldehyde)
 (Nitroacetophenone) (Oxines)

HAIJOS, Andor (Budapest VII. Rottenbiller u.26)

Studies in the field of chloramphenicol. IX. Experiments in O-methyl-
-p-nitrophenylserine series. In German. Acta chimica Hung. 21 no.3:
255-267 '59. (EBAI 9:5)

1. Research Institute of Pharmaceutical Industry, Budapest.
(Chloromycetin) (Nitrophenylserine) (Methyl group)

HAJOS, Andor (Budapest); FUCHS, Oskar (Budapest)

Application of complexes of metal hydrides in pharmaceutical chemistry.

I. Selective reduction of steroid ketones by calcium boron hydride.

Kem.tud.kozl.MTA 12 no.3:279-283 '59.

(KRII 9:4)

1. Gyogyszeripari Kutató Intézet, Budapest.

(Chemistry, Medical and Pharmaceutical) (Complex compounds)

(Steroids) (Ketones) (Calcium borohydrides)

(Metals) (Hydrides)

HAJOS, Andor (Budapest)

Synthetic examinations in connection with chloramphenicol. II.
Experiments in the O-methyl-~~p~~-p-nitrophenyl serine series. Kem.
tud.kozl.MTA 12 no.4:383-393 '59. (KAI 9:4)

1. Gyogyszeripari Kutato Intezet, Budapest.
(Chloramphenicol) (Methyl group) (Nitrophenylserine)

HAJOS, Andor (Budapest); FUCHS, Oszkar (Budapest)

Application of metal hydride in pharmaceutical chemistry. I. Selective reduction of steroid ketones with calcium boron hydride. In German. Acta chimica Hung. 21 no.2:137-142 '59. (KRI 9:4)

1. Research Institute of Pharmaceutical Industry, Budapest.
(Metals) (Hydrides) (Complex compounds) (Chemistry, Medical and pharmaceutical) (Reduction) (Calcium borohydrides) (Ketones)
(Steroids)

HAJOS, Andor (Budapest VII Rottenbiller u.26); FUCHS, Oszkar (Budapest VII, Rottenbiller u.26)

Studies in the field of chloramphenicol. X. Production of chloramphenicol from L_s(+)-threo- β -p-nitrophenylserine-n-butylester. Acta chimica Hung 24 no.4:411-419 '60. (EEAI 10:4)

1. Research Institute of the Pharmaceutical Industry, Budapest.
(Chloramphenicol) (Nitrophenylserine) (Butyl group)
(Esters) (Calcium borohydrides) (Sodium cyanide)
(Hydrolysis)

HAJCS, E.; KADAR, I.

Some mathematical methods used in testing the efficiency of investments in the building materials industry. p.380

EPITOANYAG, (Epitoanyagipari Tudományos Egyesület)
Budapest, Hungary
Vol. 11, no.10, Oct. 1959

Monthly List of East European Accessions (EEAT) LC., Vol. 8, no.12, Dec. 1959
Uncl.

HAJOS, Erno

Report on the 1st Conference on Housing. Epitoanyag 12 no.7:265-269
Jl '60.

114-305, E.
GIMES, B.; LELEK, I.; HAJOS, E.

Value of the white blood cell count in ulcer diseases. Orv. hetil.
93 no. 40:1143-1145 5 Oct 1952. (GLML 23:5)

1. Doctors. 2. Roentgen Clinic (Director -- Prof. Dr. Nandor Rat-
koczy), Budapest Medical University.

HAJOS, Endre, dr.

Dilated and enlarged aorta. Magy. radiol. 7 no.1:48-50
Jan 55.

1. A Budapesti Orvostudományi Egyetem Röntgenklinikájának
közleménye (Igazgató: Ratkoczy, Nándor dr. egyet. tanár).
(ARTERIOSCLEROSIS, pathology,
aortic dilat. & enlargement.)
(AORTA, diseases,
arteriosclerotic dilat. & enlargement.)

~~HAJOS, Endre, dr.;~~ LELEK, Imre, dr.

Osseous metastases in uterine cancer. Magy. radiol. 7 no.1:
51-54 Jan 55.

1. A Budapesti Orvostudományi Egyetem Röntgenklinikájának
közleménye (Igazgató: Ratkoczy, Nándor dr. egyet. tanár).

(UTERUS, neoplasms,
metastases to bones.)

(BONES, neoplasms,
metastases from uterus.)

HAJOS, Endre, dr.

Ulcer activity and x-ray examinations. Orv. hetil. 96 no.33:
897-902 14 Aug 55.

1. A Budapesti Orvostudományi Egyetem Röntgenklinikájának
(igazgató: Batkoczy Nándor dr. egyet. tanár) közleménye.
(PEPTIC ULCER, diag.
x-rays (Hun))
(ROENTGEN RAYS,
in diag. of peptic ulcer (Hun))

FARAGO, Katlin, dr.; HAJOS, Endre, dr.

Simultaneous tomography. Magy. radiol. 8 no.2:104-106 May 56.

1. A Budapesti Orvostudományi Egyetem Röntgenklinikájának
(Igazgató: Ratkoczy, Nándor, dr. egyet. tanár) közleménye.
(ROENTGENOGRAPHY
tomography, simultaneous of several layers, new
technic (Hun))

HAJOS, ENDRE

SZENDROI, Zoltan, dr.; HAJOS, Endre, dr.

Isotope therapy in urological surgery. Orv. hetil.
98 no.18:459-463 4 May 57.

1. A Budapesti Orvostudományi Egyetem Urológiai klinikájának
(igazgató: Babics. Antal, dr. akadémikus) közleménye.
(UROGENITAL SYSTEM, neoplasms
ther., radioisotopes (Hun))
(ISOTOPES, ther. use
cancers of urogenital system (Hun))

EXCERPTA MEDICA Sec 9 Vol 13/6 Surgery June 59

3386. EXAMINATION OF URETERAL STONES BY BODY-SECTION RADIO-
GRAPHY - Untersuchung von Uretersteinen durch Schichtaufnahmen -
Hajós E. Urol. Klin. der Med. Univ., Budapest - Z.UROL. 1958, 51/4
(193-200) Illus. 7

It is recalled that in radiographical pictures it is difficult to detect small stones, especially if they are localized on bone, and also transparent stones. In a series of clinical cases the value of tomography or body-section radiography is shown. This method sharpens the outline of the shadow of the object at the level where it is situated and blurs those of the other planes. Serallach - Barcelona (IX, 14)

HAJOS, Endre, Dr.; BALOGH, Ferenc, Dr.

Diverticulum of the calyx. Magy. radiol. 11 no.3:164-168 Aug 59

1. A Budapesti Orvostudományi Egyetem Urológiai Klinikájának
közleménye: (Igazgató: Babics Antal dr. egyetemi tanár)
(KIDNEY PELVIS, dis)
(DIVERTICULOSIS, radiogr)

HAIOS, Endre, dr.

"Deep unilateral deviation" of the ureter. Magy radiol. 12 no:4:
225-230 N°60.

1. A Budapesti Orvostudományi Egyetem Urológiai Klinikájának
(igazgató: Babics Antal dr. egyetemi tanár) közleménye.
(URETERS abnorm)

HAJOS, Endre, dr.; MAGASI, Peter, dr.

Roentgenographic picture of the operated kidney. Magy radiol. 13
no.2:85-93 Mr '61.

1. A Budapesti Orvostudományi Egyetem Urológiai Klinikájának
közleménye (Igazgató: Babics Antal dr., egyetemi tanár).
(KIDNEY surg)
(KIDNEY radiog)

MAGASI, Peter, dr.; HAJOS, Endre, dr.; ROSDY, Erno, dr.

Cysto-urethrography in diseases of the urinary bladder. *Magy sebesz.*
14 no.5:323-328 0 '61.

1. Budapesti Orvostudományi Egyetem Urológiai klinikájának (Igazgató:
Babics Antal dr. egyet. tanár, akadémikus) közleménye.

(BLADDER radiog) (URETHRA radiog)

BALOGH, Ferenc, dr.; HAJOS, Endre, dr.

Bilateral solitary renal cyst. The problem of differential diagnosis.
Orv. hetil. 102 no.15:705-707 9 Ap '61.

1. Budapesti Orvostudományi Egyetem, Urologiai Klinika.

(KIDNEY DISEASES diag)

HAJOS, E.

Poststenotic ureteral stasis. Acta chir. Acad. Sci. Hung. 3 no.2/3:
153-156 '62.

1. Urologische Klinik (Direktor: Prof. Dr. A. Babics) der Medizinischen
Universität Budapest.
(URETER diseases)

HAJOS, Endre, dr.

Elongated stem of the calyx of the kidney. Magy. radiol. 14 no.3:
142-145 Je '62.

1. Budapesti Orvostudományi Egyetem Urológiai Klinikájának (igazgató:
Babics Antal dr. egyetemi tanár, akadémikus) közleménye.

(KIDNEY DISEASES radiog) (PYELOGRAPHY)

HAJOS, Endre, dr.

Data on early diagnosis and natural history of renal tumors. Orv.
hetil. 103 no.32:1508-1511 12 Ag '62.

1; Budapesti Orvostudományi Egyetem, Urológiai Klinika.
(KIDNEYS neopl)

HANOS, P.; STRAZNICKY, K.; MOSE, P.

The effect of TEN on the ultrastructure of embryonic chick thyroid. Acta biol. Acad. sci. Hung. 15 no.2: 237-249 '64

1. Department of Anatomy, Histology and Embryology, Medical University, Pecs (Head: B.Flerko).

STRAZNICKY, K.; HAJOS, F.; BOHUS, B.

Relationship between the ultrastructure and cortical activity of the embryonic adrenal gland in the chicken. Acta biol. acad. sci. Hung. 16 no.3:261-274 '66.

1. Department of Anatomy, Histology and Embryology, Medical University, Pecs (Head: B. Flerko) and Department of Physiology, Medical University, Pecs (Head: K. Lissak). Submitted April 29, 1965.

L 15502-66

SOURCE CODE: HU/2505/65/026/00X/0050/0050

ACC NR: AT6007448

AUTHOR: Hajos, F.; Straznioky, K.; Mess, B.

ORG: Medical University of Pecs, Institute of Anatomy (Pecsi Orvostudományi Egyetem, Anatómiai Intézet)

TITLE: Effect of TSH on the ultrastructure of the thyroid gland of decapitated chick embryos [This paper was presented at the 29th Meeting of the Hungarian Physiological Society held in Szeged from 2 to 4 July 1964]

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, Supplement, 1965, 50

TOPIC TAGS: hormone, endocrinology, animal physiology, thyroid gland

ABSTRACT: It has been shown in earlier electron microscopic studies that, at about the 11th day of incubation, a large quantity of ergastoplasm of the lamellar type develops in the thyroid gland of the chick embryo, in response to the TSH secretion which is starting at that time. This does not occur in decapitated embryos. In order to prove that TSH acts in a direct manner, 14 day old decapitated embryos were treated with TSH, in response to which ergastoplasm similar to the normal one developed, as in the case of decapitated, hypophysis-transplanted embryos of similar age. The developmental stages of the ergastoplasm have also

Card 1/2

L 15502-66

ACC NR: AT6007448

been investigated along with the study of the earliest manifestations of the TSH effect at different intervals following the administration of TSH. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 2/2

COUNTRY:	: Hungary	E-27
CATEGORY	:	
ABS. JOUR.	: RZKhim., No. 22 1959, No.	80085
AUTHOR	: Hajos, G.	
INST.	: Not given	
TITLE	: International Methods for the Testing of Wines and the International Evaluation of Wines at Budapest in 1958	
ORIG. PUB.	: Elelm Ipar, 13, No 5, 153-1 6 (1959)	
ABSTRACT	: The author reports briefly on the standard wine evaluation methods adopted by 12 countries at the meeting in Paris in 1954 and on the system of testing and evaluating the quality of wines at the Budapest International Exposition in 1958. From author's summary	
CARD:	1/1	

HAJOS, Gyorgy, akademikus

The 1963 report of the Secretary, Division of Mathematical and Physical Sciences, Hungarian Academy of Sciences. Mat kozl Mta 13 no.4:313-340 '63.

1. Magyar Tudomanyos Akademia Matematikai es Fizikai Tudomanyok Osztalya titkara; "A Magyar Tudomanyos Akademia Matematikai es Fizikai Tudomanyok Osztalyanak Kozlemenyei" szerkeszto bizottsagi tagja.

HAIOS, Erno; KOVATS, Zsolt

Conference of the building industry on the organization of production.
Epites szemle 5 no.3:89-91 '61.

Hajós, G.
HAJÓS, G.:
A Simple Cover for
Multi-Dimensional
Spaces With Cubical
Lattices

Math
Hajós, G. Einfache Bedeckung mehrdimensionaler Räume
mit Würfelgitter. Mat. Fiz. Lapok 48, 37-64 (1941).
(Hungarian. German summary)
A German version of this paper has already been reviewed
[Math. Z. 47, 427-467 (1941); these Rev. 3, 302].
P. Erdős (Syracuse, N. Y.).

Source: Mathematical Reviews.

Vol 8, No. 4

Sm

Hajós, G.

302

Hajós, G. Über Gitterparallelogrammen. Mat. Fiz. Lapok 48, 398-400 (1941). (Hungarian. German summary)

The author gives a simple geometrical proof of the well-known theorem that a triangle whose vertices have integer coordinates and which has no lattice point in its interior or boundary has area $\frac{1}{2}$. P. Erdős (Syracuse, N. Y.).

Source: Mathematical Reviews,

Vol. 5, No. 4

5/11/41

Hajós, G.

Hajós, G. Grundzüge der Fehlerabschätzung. Mat. Fiz. Lapok 49, 84-122 (1942). (Hungarian. German summary)

Nach Besprechung der Notwendigkeit, Vorteile und Prinzipien der Fehlerabschätzung wird das Ziel gesteckt, die wohlbekannten Elemente der Fehlerabschätzung systematisch darzustellen und sie an mancher Stelle zu ergänzen. Die Anwendungen der Wahrscheinlichkeitstheorie werden nicht gestreift. Im Sinne der Approximationsmathematik wird nur praktischen Zielen geteilt.

From the author's summary.

Source: Mathematical Reviews,

Vol 8, No. 5

Hajós G

Hajós, G. Sur la factorisation des groupes abéliens.
 Casopis Pěst. Mat. Fys. 74 (1949), 157-162 (1950).

(French. Czech summary)

The author considers various problems connected with the factorisation of abelian groups and the filling of space by congruent hypercubes. Let A and B be two subsets of a given group G ; then we write $AB = G$ if corresponding to any $g \in G$ there exist unique elements $a \in A$, $b \in B$, such that $g = ab$, and we say that G is divisible by A and by B . A subset S consisting of elements $1, a, a^2, \dots, a^{k-1}$ is called a series; when k is the order of a . S is a cyclic subgroup and is then said to be periodic. More generally, a subset A is called periodic if $aA = A$ for some $a \in G$ and A is then divisible by the cyclic subgroup generated by a . The Minkowski conjecture concerning homogeneous linear forms is equivalent to the author's theorem [Math. Z. 47, 427-467 (1941); these Rev. 3, 302] that if a finite abelian group is factorisable as $G = S_1 S_2 \dots S_n$ where $S_1, S_2, \dots, S_n$ are series, then at least one S_i is periodic. Various extensions of this result are discussed, the most important being the following: (P) If $G = AB$, where G is a finite abelian group, then one of the two factors A, B is divisible by a group (other than the unit element $\{1\}$). The truth or falsity of (P) for various kinds of abelian groups is considered. For a cyclic group G of order p^k (p prime) it is shown that (P) is true. Let a generate G , and put $A(x) = \sum_{i=0}^{k-1} a^{xi}$, $B(x) = \sum_{j=0}^{k-1} a^{xj}$, where A and B consist of the elements a^{xi} ($i = 1, 2, \dots, n$), a^{xj} ($j = 1, 2, \dots, n$) respectively. Then $AB = G$ implies $A(x)B(x) \equiv 0 \pmod{x^k - 1}$. From this it is easily deduced that at least one of $A(x), B(x)$ is divisible by the cyclotomic polynomial of degree $p^{n-1}(p-1)$, which implies that A or B is periodic. It is also known that (P) is true when G is of order p^2 and acyclic. [L. Rédei, Acta Math. 79, 213-250 (1947); these Rev. 9, 271].

Source: Mathematical Reviews,

Vol 13 No. 7

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For infinite abelian groups (P) need not be true, and an example due to Szekeres of an infinite cyclic group factorisable into two factors A, B each containing an infinity of members and each not divisible by a group ($\neq 1$) is given. However, if G is infinite and cyclic and if one of the factors, say A , is finite then the author proves that B must be a cyclic group and states that this has also been shown by de Bruijn. An example is constructed of a noncyclic group G possessing no element of finite order (other than 1) for which there exists a factorisation $G=AB$ with finite A without B being cyclic.

A method of constructing factorisations of finite abelian groups is given in which one factor is divisible by a group. The problem of factorisation is also formulated in terms of the associated group algebra, and is shown to be closely connected with that of finding all divisors of zero of the group algebra. That such divisors need not be periodic if G

is cyclic of order $N \neq p^n$ is shown by the example

$$(a^2 - 2a^2 + 2a - 1)(a^2 + 2a^2 + 2a + 1) = 0$$

for the group defined by $a^2 = 1$; here neither factor is periodic. R. A. Rankin (Birmingham).

Source: Mathematical Reviews,

Vol 13 No. 7

2/2 GH

Shaw
R.A.

Hayes, G.

Hajós, G. Sur le problème de factorisation des groupes cycliques. Acta Math. Acad. Sci. Hungar. 1, 189-195 (1956) (French. Russian summary)

It is shown that the proposition (P) of the preceding review is false if G is a finite cyclic abelian group whose order is the product of three integers having no common factor, provided that at least two of these integers are composite. The given group G is represented as the factor group P/R of two suitably chosen translation groups. P consists of those translations which carry a unit hypercube π centred at the origin in n -dimensional Euclidean space into another unit hypercube centred at some other lattice point. A larger parallelepiped ρ containing π and several other hypercubes in the first system, and the space is filled with parallelepipeds congruent to ρ , the centres not necessarily forming a lattice, but such that R , the set of translations which transforms the new configuration ρ into itself, is a subgroup of P . The translations $T \in P$ for which $T\pi$ determine a set A of cosets of P relative to R . Similarly, the translations $T \in P$ for which $T\rho$ define a set B of cosets relative to R . It is shown that $G \cong A/B$ and, by choosing the system ρ suitably, this result is used to prove the theorem stated. An alternative proof expressed purely in group-theoretical terms is also given. The simplest group satisfying the conditions is of order 180 and can be factorised into two non-periodic factors containing 6 and 30 elements respectively.

R. A. Rankin (Birmingham)

Source: Mathematical Reviews,

Vol. 12 No. 7

HAJOS, Gy.

"Survey of applied mathematics in Hungary."
Kozlemenyei, Budapest, Vol 3, No 3, 1953, p. 403

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

HAJOS, G.

HAJOS, G.; RENYI, A. "Elementary proofs of some basic facts concerning order statistics."
In English.

Acta Mathematica, Budapest, Vol 5, No 1/2, 1954, p. 1

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

HAIJCS, Gy.

Report of the Secretary of the Section. p. 3. (Magyar Tudományos Akadémia,
Vol. 7, No. 1, 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) IC, Vol. 6, No. 8, Aug 1957. Uncl.

~~KHAYOSH, G.~~
#A 805

AUTHOR: Nikol'skiy, G. M., Doctor of Physical and Mathematical Sciences. -30-1-14/39

TITLE: Mathematical Conference in Szeged
(Matematicheskaya konferentsiya v Segede).

PERIODICAL: Vestnik AN SSSR, 1958, Vol. 23, Nr 1, pp. 84-85 (USSR)

ABSTRACT: The conference took place in connection with the 10 years' celebrations of the Hungarian Mathematical Society from September 21 to September 23, 1957, and was organized jointly with the Hungarian Academy of Science. The Society is named after the great Hungarian mathematician ^{B. Lya} Janosh Bolyai, independent of Lobachevskiy, discovered non-Euclidian geometry. The names of F. Ris, A. Khar, and D. Mad' are connected with the university of Szeged. At present the professors I. Kalmar (logics), L. Redei (geometry, algebra), and B. Mad' (analysis of functions, theory of functions) are leading in their respective fields. The periodical "Acta Mathematica" is being published since 1922. The conference was attended by foreign guests from Bulgaria, the German Democratic Republic, Poland, Romania, USSR, Czechoslovakia, and Yugoslavia. L. Kalmar's report was about the theoretical description of an electron machine planned by him. G. Khayosh, in his report on

Card 1/3

#A 805

Mathematical Conference at Szeged

30-1-14/30

"Accuracy in Geometry", spoke about the character of the representation of geometric problems in the textbook for students. G. Aleksich spoke about the convergence of orthogonal series, and B. Hal' on some new results obtained with the theory of operators in Gilbert's space. L. Redei spoke about remarkable points of the triangle, O. Varga on new results obtained by the theory of differential-geometric spaces, L. Fuks on the extension of the Khayash theorem to infinite groups. Among the foreign guests it was the author (USSR), who spoke about the theorem of the enclosure (vloženiye) for functions the different partial derivatives of which are differently normed; Kh. Grell (German Democratic Republic) spoke about regular prime ideals; T. Popovichi (Roumania) spoke about a problem connected with the theory of ordinary differential equations. In the sections for algebra and the theory of numbers, analytics, geometry, logics, the theory of mathematical machines, the theory of probabilities, and pedagogics special reports were heard and discussed. The Collective of Hungarian Mathematicians successfully combines the development of a number of general theoretical fields of mathematics with the development of the applied fields, especially of statistics and

Card 2/3

Mathematical Conference in Szeged

30-1-1, '35

machine mathematics.

AVAILABLE: Library of Congress
1. Mathematics-Conference

Card 3/3

HAJOS, GY.

"An account of the work of the Section of Mathematics and Physics of the Hungarian Academy of Sciences." p. 3

MAGYAR TUDOMANYOS AKADEMIA. Matematikai es Fizikai Osztaly. KOZLEMENYEI. Budapest, Hungary, Vol. 9, No. 1, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

HAJOS, Gyorgy

International wine testing methods and the International Wine
Competition. Elelm ipar 13 no.5:153-156 My '59.

1. Orszagos Borminosito Intezet.

HAJOS, Gyorgy, akademikus (Budapest)

An account of the work of the Section of Mathematics and Physics,
Hungarian Academy of Sciences. Mat kozl MTA 10 no.4:407-420 '60.

(EEAI 10:3)

DEPT. SECY.

1. Osztálytitkar, A Magyar Tudományos Akademia Matematikai és
Fizikai Tudományok Osztálya, Budapest.

(Hungarian Academy of Sciences)

(Hungary--Mathematics) (Hungary--Physics)

HAJOS, Gyorgy

Creation of modern technology. Ujit lap 12 no.5:3-4 10 Mr '60.

1. Koho- és Gepipari Miniszterium Iparpolitikai Főosztályának
főosztályvezető helyettese.

HAJOS, Gyorgy, akademikus (Budapest)

Practical applications of mathematics. Magy tud 67 no.9:517-528
S '60. (EEAI 9:12)
(Mathematics)

HAJOS, Gyorgy (Budapest)

Report of the Section of Mathematics and Physics, Hungarian Academy
of Sciences. Mat kozl MTA 11 no.3:229-247 '61.

1. Szerkesztobizottsagi tag, A Magyar Tudomanyos Akademia Matematikai
es Fizikai Tudomanyok Osztalyanak Kozlemenyei, Budapest.

(Mathematics) (Physics)
(Hungarian Academy of Sciences)

CSASZAR, Akos; FRIED, Ervin; FUCHS, Laszlo, HAJOS, Gyorgy; RENYI, Alfred;
TURAN, Pal

Report on the 1962 Miklos Schweitzer Memorial Contest on
Mathematics. Mat lapok 14 no. 3/4:345-371 '63.

1. Editorial board member, "Matematikai Lapok" (for Hajos and
Renyi). 2. Managing editor, "Matematikai Lapok" (for Turan).

HAGOS, G.

An extreme characteristic of affine rectilinear polygons. Mat
kut kozl MTA 8 series A no. 31293-297 '63('64).

CSASZAR, Akos; HAJOS, Gyorgy; HEPPES, Aladar; CZACH, Laszlo; HAJNA, Janos;
FRIED, ERVIN

Solving mathematical problems. Mat lapok 15 no.1/3:242-246 '64

1. Editor, "Mathematikai Lapok" (for Hajos).

HAJOS, Gyorgy; SURANYI, Janos; FUCHS, Laszlo; ACZEL, Janos; KALMAR, Laszlo; (Szeged)
SZOKEFALVI-NAGY, Bela (Szeged)

Report on the 5th regular meeting arranged by the Janos Bolyai
Mathematical Society. Mat lapok 12 no.1/2:127-144 '61

1. President, Janos Bolyai Mathematical Society, and Editor,
"Matematikai Lapok" (for Hajos). 2. Secretary General, Janos Bolyai
Mathematical Society (for Suranyi). 3. Editor, "Matematikai Lapok"
(for Aczel).

CSASZAR, Akos; FUCHS, Laszlo; HAJOS, Gyorgy; RENYI, Alfred; TURAN, Pal;
VARGA, Otto

Report on awarding the 1963 Geza Grunwald Memorial Prizes in
mathematics. Mat lapok 15 no.1/3:247-251 '64.

1. Managing Editor, "Mathematikai Lapok" (for Turan). 2. Editor,
"Mathematikai Lapok" (for Hajos and Renyi).

L 13429-66 EWT(d) IJP(c)

ACC NR: AP6006888

SOURCE CODE: HU/0036/65/072/002/0087/0097

AUTHOR: Hajos, Gyorgy--Khayosh, D'. (Academician; Professor)

ORG: Eotvos Lorand University, Budapest (Eotvos Lorand Tudomanyegyetem)

TITLE: Role of mathematics in other sciences

SOURCE: Magyar tudomany, v. 72, no. 2, 1965, 87-97

TOPIC TAGS: applied mathematics, mathematics, calculator, information theory, operations research, cybernetics, electronic computer

ABSTRACT: The article was delivered as a lecture at the 17 Dec 64 general meeting of the Hungarian Academy of Sciences. The disappearance of the division between pure and applied mathematics is lauded and two characteristic properties of mathematics, abstraction and precision, are discussed, the latter illustrated by some examples. The correct approach to application of mathematical thinking in other sciences is described briefly as the development of a general model complicated enough to fit the problem and yet manageable without undue effort. For this, the needs of the field which uses it and the present possibilities of mathematics must be clearly recognized. The development of mathematics is discussed both from a historical standpoint and in modern times. The effect of electronic calculators has also been beneficial to mathematics itself, in form of the information theory, operational research and cybernetics. Calculators are used, qualitatively as well, in

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every phase of modern research in addition to automatization and economics. The cooperation between the physical sciences and chemistry has also become increasingly active. The lack of sufficient mathematicians, in Hungary, is deplored and a future need for decentralization is pointed out. Because of the difficulties encountered in sending aspirants for their 3 year training to the USSR, one year study trips are recommended. The recommendations made for the teaching of mathematics correspond to those in Western countries.
[JPRS]

SUB CODE: 12, 09, 05, 06 / SUBM DATE: none

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100																									
HAYES, K. CA Histamine-like substances in the blood of allergic subjects. Károly Hayes, Pal Paragó and Andor Fehér. <i>Orvosi Hetilap</i> 83, 369 (1940).-- The blood of allergic subjects contains at all times about twice as much histamine as normal. The histamine content of the blood seems to have no connection with the no. of eosinophil cells. S. S. de Fekly ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION 18041 5710217*																									

HAJOS K. Az OTI allergias betegsegeket kutato laboratoriumanak mukodeserol
On the results of the allergy research laboratory of the National Health Insurance Institute
(OTI) Orvosok Lapja, Budapest 1947, 3/44 (1834-1836)

Three hundred and fifty-two cases were investigated, 216 being referred from the factory and 136 by their doctors. The clinical examination was completed by haematological investigation and tests with different allergens, e.g. the pollen allergens of Parke-Davis or Sachsische Serumwerke. Of 65 dermatological cases 25 were allergen-positive and 40 negative. Of 71 cases admitted with a diagnosis of asthma 25 were of non-allergic origin (myodegeneration, cardiac asthma, bronchitis and tuberculosis). Systematic investigation in factories detected many allergen-positive cases among the workmen.

Fejes-Budapest

SO: Medical Microbiology and Hygiene, Section IV, Vol. I, #1-6

HAJOS, K. 1949

(Apponyi Polyclinic, Budapest)

"Internal Secretion and Allergy."

Orvosi Hetilap, 1949, 90/1(3-12)
No abst. in Exc. Med.

HAJOS, K.

Influence of environment in the etiology of allergic diseases.
Orv.hetil. 91 no.32:988-993 6 Aug 50. (CLML 20:5)

1. Internal Department, Metropolitan Clinic, Koranyi Second
General Hospital.

H450
HAJOS, K.; HAJOS, M.

Application of histamine-azoprotein in internal medicine. Orv.
hetil. 91 no.33:1001-1006 13 Aug 50. (CLML 20:5)

1. Polyclinic of Koranyi Second Metropolitan General Hospital,
Budapest.

HAJOS, K.; HAJOS, M.K.

Histaminazoprotein therapy of internal disease. Acta med.hung. 2
no.1:117-123 1951. (CML 20:7)

1. Of the Municipal Hospital, Koranyi II. Head Physician of
Internal Department Prof. K. Hajos, M.D.

HAJOS, K.

Allergy and the acute rheumatic diseases. Orv. hetil. 92 no. 1:18-26
6 Jan 1951. (CML 24:2)

1. Doctor. 2. Internal Department of Second Koranyi Metropolitan
General Hospital.

ALFOLDY, J.;HAJOS, K.

Treatment of asthma by drainage of the secretion. Orv. hetil. 93 no.
21:620-622 25 May 1952. (CJML 23:3)

1. Doctors. 2. Internal and laryngological Department, Szovetsag-utca
Hospital.

HAJOS, K.; PETO, M.; POGANY, I.

Fungus sensitivity examinations of allergic (asthmatic) patients.
Orv. hetil. 93 no. 36:1025-1030 7 Sept 1972 (GIML 23:5)

1. Doctors. 2. Szovetseg-utcai Hospital, Internal Department.

HANOS K., PETO M. AND POGANY I. Med. Dept., Szovetsej-utca Hosp., Budapest
Hypersensitivity to moulds and fungi in allergic (asthmatic) patients Acta med.
Acad. Scient. hung. (Budapest) 1953, h/2 (143-155) Tables h
Fungi are important in the causation of allergic diseases. Hypersensitivity to Trichophyton
chophyton occurs frequently. The passive transfer of hypersensitivity to Trichophyton
(Epidermophyton, Mucor and Aspergillus) could be easily demonstrated. It was de-
tected that there are many cases of hypersensitivity to moulds in bronchial asthma.
In such cases specific desensitisation resulted in a symptom-free interval lasting,
13-14 months. This procedure represents a new approach to the causal treatment
of bronchial asthma. Mosonvi - Budapest

SO: EXCERPTA MEDICA, Vol. 8 No. 2, Section VI. February 1954

HAJOS, Karoly; HAJOS, Maria; LASZLO, Bela

Bronchial asthma and the heart. Orv hetil 95 no.15:393-400
Ap '54. (REAL 3:8)

1. A Szovetseg-utcai Korhas Belosztalyanak kozlemenye.
(ASTHMA, physiol.
*heart)
(ELECTROCARDIOGRAPHY, in various dis.
*asthma)
(HEART, in various dis.
*asthma)

HAJOS, Karoly, dr.

New aspects of the treatment of bronchial asthma. Orv. hetil. 95
no.49:1350-1353 5 Dec 54.

1. A Szovetseg-utcai Korhaz Belosztalyanak kozlemenye.
(ASTHMA, ther.)

FARKAS, Karoly, dr.; HAJOS, Karoly, dr.

New studies on the pathogenesis of bronchial asthma.
Magy. belorv. arch. 9 no.1:1-11 Feb 56.

1. A Szovetseg utcai korhaz belosztalyanak es prosecturajanak
kozl.

(ASTHMA, etiol. & pathogen.
(Hun))

HAJOS, Karoly, dr.

The significance of the concept of allergy in medical research.
Orv. hetil. 97 no.15:399-403 8 Apr 56.

(ALLERGY

significance in med. research & clinics, & incidence
of allergic dis. (Hun))

HAJOS, K.

Dr. Imre Fodor, 1891-1956. Orv. hetil. 97 no.19:505-506
6 May 56.

(OBITUARIES
Fodor, Imre (Hun))

HAJOS, Karoly; HAJOS, Maria

Bronchial asthma and tuberculosis. Orv. hetil. 99 no.4:109-114
26 Jan 58.

1. A Szovetseg utcai Korhaz Belosztalyanak (foorvos: Hajos Karoly)
kozlemenyse.

(ASTHMA

relation to pulm. tuberc. (Hun))

(TUBERCULOSIS, PULMONARY

relation to asthma (Hun))

H. H. J. S. N.
HAJOS, Karoly; HAJOS, Maria

Therapy of bronchial asthma by mucus drainage and hyaluronidase-hydrocortisone-prednisone aerosol. Orv. hetil. 99 no.5:166-167 2 Feb 58.

1. A Szovetseg utcai Korhaz Belosztalyanak kozlemenye.

(ASTHMA, ther.

mucus drainage & aerosol admin. of hyaluronidase,
hydrocortisone & prednisone (Hun))

(HYALURONIDASE, ther. use

asthma, aerosol admin. after mucus drainage (Hun))

(HYDROCORTISONE, ther. use

same)

(PREDNISONE, ther. use

same)

HAJOS, Karoly, Dr.

Experimental and clinical medicine. Orv. hetil. 99 no.52:1813-1815
28 Dec 58.

(MEDICINE, INTERNAL

need for bringing exper. & clin. work in accord (Hum))

HAJOS, Laszlo, okl.gepeszmernok; BETLEJ, Sandor, okl.gepeszmernok.

From the experiences of the 1961 Budapest Conference on Modern
Gaugin. Jarmu mezo gep 9 no.4:133-142 Ap ' 62

1. Jarmufejlesztési Intezet.

HAJOS, L.

"Electromechanical and electronic phasemeters" by I.M. Visencuk
[Vishenchuk, I.M.], A.F. Kotjuk [Kotyuk, A.F.], L. Ja. Mizjuk
[Mizyuk, L.Ya.]. Reviewed by Z. Hajos. Slaboproudy obzor:
Suppl.:Literatura 24 no.6:L47 '63.

BETLEJ, Sandor; HAJOS, Laszlo; SZEKELY, Zoltan

Testing motor vehicles by tensiometer. Jarmu mazo gep 8
no.9:322-334 S '61.

1. Jarmufejlesztési Intezet kutatomernoke.

HAJÓS, Marta

✓Nomenclature and form of description of sedimentary rocks. Marta Hajós. *Magyar Akadémiai Kiadó, Budapest, Ért. Jelentés 1952, 183-8 (1954) (French summary).*—The nomenclature, adopted by the Hungarian Academy of Science, includes a classification based on grain size and 4 names for different proportions of CaCO_3 and clay. Michael Fleischer

HUNG, M.

HUNG

✓ Foundry sand near D63d. Maria HUNG. Magyar
Alumini Értékelési Intézet 1957. 19-24 (1957) G.P.
(French summary).--Chem. analyses of the sand gave
SiO₂ 93.4-95.6 and Fe₂O₃ 0.45 to 1.20%. The fraction of
sp. gr. 2.63-2.66 has SiO₂ 97.0-97.8, Fe₂O₃ 0.25%.
Michael Fleischer

HAIJOS, F.

Occurrence of quartz sandstone and glass and foundry sand from Alsokohat and
Nyarvoly in Covagoors. p. 356.
FOLDTANI KOZLONY. BULLETIN OF THE HUNGARIAN GEOLOGICAL SOCIETY, Budapest, Vol.
84, no. 4, Oct./Dec. 1954.

SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

Hajós, M.

HUNG.

Geology of the area between Vértessző and Louis Kossuth
Place in metropolitan Budapest. Márta Hajós. Magyar
Állami Földtani Intézet Évi Jelentése 1953, 445-54 (1954)
(French summary).—Chem. analyses of 3 marls are given.
Michael Fletcher.

Hajos, M.

Research concerning sand for foundries in the Diosd area. p. 428.

Hungary. Foldtani Intezet. A MAGYAR ALLAMI FOLDTANI INTEZET EVI JELENTESE.
Budapest, Hungary. Pt. 2, 1953 (published 1955)

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 7, July 1959
uncla.

HAJOS, M.

The geological structure of the subway section between Vermezo and Kossuth Lajos Square in Budapest. p.445.

Hungary. Foldtani Intezet. A MAGYAR ALLAMI FOLDTANI INTEZET EVI JELENTESE. Budapest, Hungary. Pt. 2, 1953 (published 1955)

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 7, July 1959
uncla.

HAJOS, M.

Occurrence of tellurite at Erdobeny-Ligetmajor. p. 65

A MAGYAR ALLAMI FOLDTANI INTÉZET ÉVI JELENTÉSE. Budapest, Hungary, 1955/56 (Published 1959)

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960
Uncl.

HAJOS, M.

Occurrence of sand and quartz sandstone at Kovagoors and Kisorspuszia. p. 73

AMAGYAR ALLAMI FOLDTANI INTÉZET ÉVI JELENTÉSE. Budapest, Hungary, 1955/56
(Published 1959)

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960
Uncl.

HAJOS, M.

1:5000 mapping of the area of Erdohorvath. p. 83

A MAGYAR ALLAMI FOLDTANI INTEZET EVI JELENTESE. Budapest, Hungary 1955/56
(Published 1959)

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960
Uncl.

HAJOS, Marta, dr.

Holocene diatomaceous earth occurrence at Ujpest. Foldt kozl
92 no.4:464-466 N-D '62.

HAJOS, K.; HAJOS, M.

Application of histamine-azoprotein in internal medicine. Orv.
hetil. 91 no.33:1001-1006 13 Aug 50. (GLML 20:5)

1. Polyclinic of Koranyi Second Metropolitan General Hospital,
Budapest.

HAJOS, K.; HAJOS, M.K.

Histaminazoprotein therapy of internal disease. Acta med.hung. 2
no.1:117-123 1951. (CML 20:7)

1. Of the Municipal Hospital, Koranyi II. Head Physician of
Internal Department Prof. K. Hajos, M.D.

HAJOS, Maria

HAJOS, Karoly; HAJOS, Maria; LASZLO, Bela

Bronchial asthma and the heart. Orv hetil 95 no.15:393-400
Ap '54. (REAL 3:8)

1. A Szovetseg-utcai Korhaz Belosztalyanak kozlomenye.
(ASTHMA, physiol.
*heart)
(ELECTROCARDIOGRAPHY, in various dis.
*asthma)
(HEART, in various dis.
*asthma)

HAJOS, Maria, dr.

Therapeutic results in the treatment of allergic fungus diseases. Orv. hetil. 95 no.45:1233-1237 7 Nov 54.

1. A Szovetseg-utcai Korhaz Belosztalyanak (foorvos: Hajos, Karoly dr.) kozlemenye.
(FUNGUS DISEASES,
allergic dis., ther.)

HAJOS, Maria, dr.,; RAKOCZY, Geza, dr.

New methods and results in the ACTH therapy of allergic diseases.
Orv. hetil. 96 no.49:1356-1361 4 Dec 55.

1. A Szovetseg utcai Korhaz Belosztalyanak (foorvos: Hajos Karoly dr.) kozlomenye.

(ALLERGY, ther.

ACTH & cortisone, methods & results (Hun))

(ACTH, ther. use

allergy, methods & results (Hun))

(CORTISONE, ther. use

same)

HAJOS, Karoly; HAJOS, Maria

Bronchial asthma and tuberculosis. Orv. hetil. 99 no.4:109-114
26 Jan 58.

1. A Szovetseg utcai Korhaz Belosztalyanak (foorvos: Hajos Karoly)
kozlemenyse.

(ASTHMA

relation to pulm. tuberc. (Hun))

(TUBERCULOSIS, PULMONARY

relation to asthma (Hun))

HAJOS, Karoly; HAJOS, Maria

Therapy of bronchial asthma by mucus drainage and hyaluronidase-hydrocortisone-prednisone aerosol. Orv. hetil. 99 no.5:166-167 2 Feb 58.

1. A Szovetseg utcai Korhaz Belosztalyanak kozlemenye.

(ASTHMA, ther.

mucus drainage & aerosol admin. of hyaluronidase,
hydrocortisone & prednisone (Hun))

(HYALURONIDASE, ther. use

asthma, aerosol admin. after mucus drainage (Hun))

(HYDROCORTISONE, ther. use

same)

(PREDNISONE, ther. use

same)

HAJOS, Maria, Dr.

Hay fever (pollen sensitivity) in Hungary. Orv. hetil. 99 no.34:1185-1186 24 Aug 58.

1. A Szovetseg utcai Korhaz Belos Belosztalyanak (foorvos: Hajos Karoly dr.) kozlemenye.

(HAY FEVER

diag., ther. & epidemiol. in Hungary (Hun))

Summary

HAGOS, Maria, Dr; National Rheumatism and Balneological Institute,
Department of Allergology (Orszagos Reuma es Furdougyl Intezet, Allergo-
logiai Osztaly).

"The Importance of New Differential Diagnostic Procedures in the Early
Detection of Bronchial Asthma."

Budapest, Orvosi Hetilap, Vol 104, No 15, 14 Apr 63, pages 699-703.

Abstract: [Author's Hungarian summary] Based on determinations of res-
piratory function in 194 cases, the role of new techniques in the dif-
ferential diagnosis and in the investigations of the etiopathogenesis
of bronchial asthma is evaluated. The routine (vital capacity, maximal
second volume, Tiffeneau value, pneumometer value, acetylcholine-,
histamine sensitivity, Isclevine test) and specific (allergen inhalation)
tests are useful for the differentiation of asthma bronchiale and other
chronic lung diseases. Upon critical evaluation it was found that de-
monstration of the specific allergen in the primary shock tissue of asthma
bronchiale is the most important differential test. The prognosis and
preventive and therapeutic measures are also guided by the test.
3 Hungarian, 3 Western references.

1/1

MOSONYI, I.; CSIKOZSI, G.; TOTH, B.; VALFY, F.; HAJOS, Maria

The relationship between serum calcium and citrate levels.
Acta physiol. acad. sci. Hung. 27 no.4:391-396 '65.

1. Fourth Department of Medicine, Postgraduate Medical School,
Department of Physiology, Veterinary University, Sanitary
Service of the Hungarian People's Army and Rheumatology Research
Institute, Budapest.

HAIJOS, Maria, dr.

A simple device for measuring respiratory function in the
diagnosis of bronchial asthma (Pneumometer Minimus).

Orv. hetil. 106 no.50:2368-2369 12 D ' 65

1. Orszagos Rheuma es Furdougnyi Intezet, Allergologiai
osztaly.

HAJOS, Sandor, Dr.

Diagnostic significance of nystagmus produced by counter-rotation of the eyes and head in examination of encephalopathies. Orv. hetil. 99 no.25:861-863 22 June 58.

1. A Budapest Fovaros VI. ker. Tanacsä-Rendelointezetenek (igazgató-
főorvos: Somjen Pál dr., ideggyógyász-főorvos: Hajos Sandor dr.)
közleménye.

(NYSTAGMUS

induction by counter-rotation of eyes & head in various
brain dis., possible diag. value (Hun))

(BRAIN, dis.

induction of nystagmus by counter-rotation of eyes & head in
various brain dis., possible diag. value (Hun))

HAJOS, ZOLTAN

Catalysts. XI. The role of autoxidation processes in the formation of films of drying oils. Zoltan Csuros, Zoltan Hajos, and Gyula Deak (Tech. Univ., Budapest). *Acta Chim. Acad. Sci. Hung.* 2, 213-30(1952)(in English); cf. *C.A.* 49, 11300e.—Absorption of O by BzH in CCl₄ in the presence of Co and Mn driers increased with increased amounts of drier. In expts. with Hungarian linseed oil, technical grade, on strips of Japanese paper with Co and Mn naphthenate driers applied in amounts of 0.001, 0.004, and 0.025 g. (Co) and 0.0005, 0.005, and 0.013 g. (Mn) per g. linseed oil, the peroxide nos. increased to a max., then decreased. The peak was attained more quickly in the presence of Co drier (in the 8th hr. with 0.004 g. drier) than with Mn (in the 9th hr. with 0.005 g. drier). The max. peroxide no. appeared to be connected with an optimal drier amount. When linseed oil was kept in diffuse light in air for periods up to 6 hrs. the changes of peroxide no. were insignificant. Under ultraviolet irradiation the nos. increased sharply to a max. (60.5 ml. 0.02 N Na₂S₂O₄ for 1 g. oil); a simple heating to 140° led to max. lower than

in ultraviolet light, but the max. were reached more rapidly. Under the effect of diffuse light the peroxide no. of heat-treated oil with Mn drier sharply increased, becoming 40.6 in 6 hrs. in 1 g. oil contg. 0.5% Mn naphthenate. An initial induction was followed by a peak. Heat-treated oil attained the max. peroxide no. much more quickly than did oil treated at room temp. with the same drier. The autoxidation of linseed oil played an important role in the initial period of drying, showing features characteristic for autoxidation processes of chain-reaction type, as the existence of an induction period and the formation of peroxides. In the later stages of this process autoxidation became less predominant and peroxides began to decompose, probably owing to the coupling of activated oil mols., affirming the mechanism suggested by Powers, *et al.*, based upon the Bach theory (cf. *C.A.* 35, 8319⁷). Driers were capable of catalyzing the formation and decompos. of peroxides. This effect depended upon the metal components of the drier, the amount of drier, and the conditions of drying. The length of the induction period made it possible to draw certain conclusions as to whether drying took place in a downward or an upward direction.

Istvan Fialy

HAJOS, Zoltan
ZOLTAN, Hajos

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Organic Chemistry

Catalysts. XII. Effect of ion exchangers in esterifica-
tion. Zoltan Hajos, Tórsel Fodor, and Zoltan Hajos (Tech.
Univ., Budapest). *Acta Chim. Acad. Sci. Hung.* 2, 459-
74 (1952) (in English); cf. *C.A.* 47, 7303d. Catalytic ef-
fects in esterification were studied on α -C₆H₄(CO₂Et)₂.
Fractions of different particle size prep. from cation ex-
changer Wofatit KS of the phenolsulfonic acid type showed
increasing activities with increase of the surface (increasing
degree of dispersity) up to a certain limit of dispersity
where no further increase was observed. The study of the
correlation between the quantity of catalyst and the rate of
reaction (with one selected fraction of catalyst) indicated
that the rate of reaction was reduced, after attaining an
optimal amt. of catalyst. Examin. of various fractions
proved that the catalytic effect is reduced by increasing the
degree of dispersity, excepting the case when a catalyst of
higher degree of dispersity was activated after crushing.
Such catalysts showed activities superior to those of cat-
alysts of larger particle size. Expts. with equimolar amts. of
catalysts, and a comparison of the reaction rates showed that
ion exchangers in a heterogeneous phase attain the effect
of catalysts applied in a homogeneous phase (H₂SO₄) but in
later period. The ion exchangers applied were activated
prior to esterification, by treatment with dil. H₂SO₄, prefer-
ably at room temp. since activation at higher temps. de-
teriorated the catalytic effects. The study of the influence
of the moisture content of ion exchangers on the catalytic
effect proved that it is best to use ion exchangers in an air-
dry state since catalysts dried to const. wt. at 60° had
smaller effects. Expts. with octyl alc. and glycol Me ether,
gave partly identical results. In the esterification of octyl
alc. the effect of ion exchanger proved superior to that of
H₂SO₄. Six figures indicate the curves obtained. I. F.

MF
7-27